



County of San Diego
Planning & Development Services
BUILDING DIVISION

ACCESSIBILITY CORRECTION LIST

Public Accommodations
& Commercial Buildings

8B

**Elevators and
Platform/Wheelchair Lifts**

PLAN CHECK #:

OWNER ON APPLICATION:

SCOPING

1. If more than one passenger elevator is provided, each passenger elevator shall be accessible and on an accessible route.
CBC 1103B.1, CBC 1116B.1.1, and CBC 1116B.1.15
2. In buildings or facilities eligible for the elevator exception of CBC 1103B.1 but with passenger elevators nonetheless proposed, each passenger elevator shall be accessible.
CBC 1103B.1
3. Freight elevators shall not be used to meet accessibility requirements unless only elevators provided are combination passenger and freight elevators serving public and employees.
CBC 1116B.1
4. Note on plans: "All elevators shall comply with ASME A17.1, *Safety Code for Elevators and Escalators*."
CBC 1116B.1

CAR DIMENSIONS

5. Dimension elevator car interior complying with the following:
 - ☐ For elevator cars with side-opening doors, minimum 68 inches between side walls per CBC Figure 11B-40A(a)
 - ☐ For elevator cars with center-opening doors, minimum 80 inches between side walls per CBC Figure 11B-40A(b)
 - ☐ Minimum 54 inches between rear wall and door
 - ☐ Minimum 51 inches between rear wall and return panel
CBC 1116B.1.8
6. Provide handrail on one elevator car wall – preferably the rear – complying with the following:
 - ☐ Minimum 31 inches and maximum 33 inches above car platform
 - ☐ Minimum 1½-inch clearance between rail and adjacent wall
 - ☐ Smooth gripping surface
CBC 1116B.1.11
7. Specify level elevator car platform surface with no vertical changes in elevation exceeding ¼ inch.
CBC 1116B.1.8

DOORS

8. Specify elevator car and hoistway doors complying with the following:
 - ☐ Power-operated
 - ☐ Horizontally sliding
 - ☐ Opening and closing automatically
CBC 1116B.1.3
9. Dimension minimum 36-inch clear width at elevator doors.
CBC 1116B.1.4
10. Specify self-leveling feature automatically positioning elevator car platform flush with lobby landings within +/- ½-inch tolerance.
CBC 1116B.1.2

11. Specify maximum 1¼-inch clearance between elevator car platform sill and hoistway landing edge.
CBC 1116B.1.2
12. Specify door reopening devices complying with the following per CBC Figure 11B-40C:
 - ☐ Function to stop and reopen car and hoistway doors in case car door becomes obstructed while closing
 - ☐ Capable of sensing an object or person in path of closing door at nominal 5 inches and 29 inches above floor
 - ☐ Do not require contact for activation
 - ☐ Remain effective for not fewer than 20 seconds
CBC 1116B.1.5
13. Specify minimum 5-foot-candle illumination at threshold between elevator car platform and lobby landing.
CBC 1116B.1.12
14. Detail doorjamb marking complying with the following at each lobby elevator hoistway entrance per CBC Figure 11B-40C:
 - ☐ Indicating respective floor number
 - ☐ Located on both sides of door and visible from within elevator car
 - ☐ Centered 60 inches (absolute) above lobby floor
 - ☐ Floor numbers designated by raised characters minimum 2 inches in height and otherwise complying with item 37
 - ☐ Main entry level designated by raised five-pointed star with 2-inch (absolute) outside diameter placed to left of floor-designation number and otherwise complying with item 37
 - ☐ Raised characters and star in white on black background
 - ☐ Corresponding Braille per item 38 beneath raised characters and symbols with "MAIN" as Braille translation for star
CBC 1116B.1.14, CBC 1117B.5.5, and CBC 1117B.5.6

CAR CONTROLS AND INDICATORS

15. Identify location of elevator car-control panels per the following:
 - ☐ Front wall of cars with center opening doors
 - ☐ Side wall or front wall next to door of cars with side-opening doors
CBC 1116B.1.8
16. Dimension floor buttons complying with the following:
 - ☐ Maximum 48 inches above elevator car platform surface where only front approach allowed
 - ☐ Maximum 54 inches above elevator car platform surface where parallel approach allowed
CBC 1116B.1.8
17. Specify floor buttons shall include visual indicators showing when each call registered and extinguishing when each call answered.
CBC 1116B.1.8
18. Dimension elevator emergency controls – including emergency stop and alarm – complying with the following per CBC Figure 11B-40B:
 - ☐ Minimum 35 inches above elevator car platform surface
 - ☐ Grouped near bottom of floor-button panel
CBC 1116B.1.8

**THIS DOCUMENT IS FOR PLAN REVIEW ONLY.
CORRECTION LIST ITEMS MAY NOT BE REPRODUCED OR COPIED ON PLANS.
PROVIDE COMPLETE DETAILS, DIMENSIONS, AND NOTES TO SATISFY CORRECTION ITEMS.**

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19. Detail car control and emergency buttons complying with following per CBC Figure 11B-40B(a):
- ☐ Minimum 3/4-inch-diameter control buttons raised 1/8 inch +/- 1/32 inch above surrounding surface
 - ☐ Illuminated control buttons with square shoulders and activated by detectable mechanical motion
 - ☐ Minimum 3/8-inch clear space or separation between rows of control buttons
 - ☐ Raised characters per the following:
 - o Located immediately to left of control buttons
 - o White on black background
 - o Otherwise complying with item 37
 - ☐ Raised symbols per the following:
 - o Provided for controls and emergency equipment including – but not limited to – “door open,” “door close,” “alarm bell,” “emergency stop,” and “telephone”
 - o Five-pointed star at call button for main entry floor
 - o Located immediately to left of control buttons
 - o White on black background
 - o Otherwise complying with item 37
 - ☐ Corresponding Braille per item 38 beneath raised characters and symbols
- CBC 1116B.1.9, CBC 1117B.5.5, and CBC 1117B.5.6*

20. Specify and dimension elevator emergency telephone handset complying with following:
- ☐ Positioned maximum 48 inches above platform surface
 - ☐ Handset cord minimum 29 inches long
 - ☐ Designated by raised telephone symbol per item 37
 - ☐ Corresponding Braille per item 38 beneath raised symbol
 - ☐ Lever-type hardware for door to any telephone compartment
 - ☐ Emergency intercommunication shall not require voice communication.
- CBC 1116B.1.8 and CBC 1117B.5.5*

21. Specify visual car position indicator within car per the following:
- ☐ Located above car control panel or over car door
 - ☐ Indicating position of elevator in hoistway
 - ☐ Numerals corresponding to floors illuminating and audible signal or automatic verbal announcement sounding as car passes or stops at floor served by elevator
 - ☐ Numerals minimum 1/2-inch high
 - ☐ Audible signal or automatic announcement minimum 20 decibels with maximum 1,500 Hz frequency
- CBC 1116B.1.9*

LOBBY SIGNAGE, CONTROLS, AND INDICATORS

22. Provide directional signage complying with item 36 at each elevator landing indicating location of accessible means of egress and including International Symbol of Accessibility per CBC Figure 11B-6(b).
- CBC 1007.9 and CBC 1007.10*
23. Detail lobby call buttons complying with the following per CBC Figure 11B-40C:
- ☐ Centerline positioned 42 inches (absolute) above floor
 - ☐ Minimum 3/4-inch-diameter buttons raised 1/8 inch +/- 1/32 inch above surrounding surface
 - ☐ Button designating up direction on top
 - ☐ Internally illuminated with white light over entire button surface
 - ☐ Visual indication provided when each call registered and extinguished when answered
 - ☐ No objects adjacent to and below call buttons projecting more than 4 inches from wall
- CBC 1116B.1.10*
24. Specify visual and audible signals at each lobby hoistway entrance complying with the following per CBC Figure 11B-40C:
- ☐ Minimum 2 1/2-inch-high by 2 1/2-inch-wide lanterns signifying up and down directions
 - ☐ Lanterns preferably arrow-shaped
 - ☐ Lanterns visible from proximity of lobby call buttons, whether on wall or elevator car doorjamb
 - ☐ Centerline of lanterns minimum 72 inches above lobby floor
 - ☐ Audible signal sounding once for up direction and twice for down direction or verbal annunciators stating “up” or “down”
- CBC 1116B.1.13*

25. Specify elevator door opening time per CBC Figure 11B-40D graph:
- ☐ T = Time in seconds from notification car answering call until doors start to close
 - ☐ D = Distance in feet from point in lobby area 60 inches directly in front of farthest call button controlling that car to centerline of hoistway door
 - ☐ Doors shall remain fully open minimum 5 seconds
- CBC 1116B.1.6 and 1116B.1.7*

TWO-WAY COMMUNICATION

26. Specify two-way communication system at elevator landings on each accessible floor one or more stories above or below story of exit discharge.
- Exception:** Elevator landing served by area of refuge with two-way communication
- Exception:** Floor provided with exit ramp
- CBC 1007.8*
27. Specify two-way communication system complying with the following between required location and fire command center or central control point approved by fire department:
- ☐ If central control point not constantly attended, system shall have time automatic telephone dial-out capability to monitoring location or 911
 - ☐ Communication system with both audible and visible signals
- CBC 1007.8.1*
28. Specify posting of the following information adjacent to two-way communication system:
- ☐ Directions for use of system
 - ☐ Instructions for summoning assistance via system
 - ☐ Written identification of location
- CBC 1007.8.2*

AREAS OF REFUGE

29. Identify on plans an area of refuge at each elevator provided as an accessible means of egress per CBC 1007.
- Exception:** Elevators in buildings and facilities equipped with automatic sprinkler system
- Exception:** Elevators without protected shaft enclosures as allowed per CBC 708.2
- Exception:** Elevators in smoke-protected seating areas
- Exception:** Elevators in open parking garages
- Exception:** Elevators accessed from horizontal exits
- CBC 1007.4 and CBC 1007.6*
30. Locate and dimension each area of refuge to comply with the following:
- ☐ Location on accessible route from space served
 - ☐ Maximum travel distance from space served per CBC 1016
 - ☐ Accommodates one wheelchair space for every 200 occupants served, but not fewer than two wheelchair spaces
 - ☐ Each wheelchair space minimum 30-inches by 48-inches
 - ☐ Access to any wheelchair space not obstructed by more than one adjoining wheelchair space
 - ☐ Wheelchair spaces do not reduce required egress width
- CBC 1007.6*
31. Where elevator lobby used as area of refuge, detail smokeproof enclosure assembly for shaft and lobby.
- Exception:** Elevator within area of refuge formed by horizontal exit or smoke barrier
- CBC 1007.6*
32. Detail smoke barrier per CBC 710 or horizontal exit per CBC 1025 between each area of refuge and remainder of story.
- CBC 1007.6.2*
33. Specify two-way communication system provided per items 27 and 28 within each area of refuge and also including the following:
- ☐ Accessible button provided within area of refuge activating lights in both area of rescue and control point indicating rescue requested
 - ☐ Button provided at control point activating lights in both area of rescue and control point indicating request received
- CBC 1007.6.3 and CBC 1007.8.1.1*

34. Provide sign per the following at door accessing area of refuge:
- ☐ Visual characters stating "AREA OF REFUGE" per item 36
 - ☐ Including International Symbol of Accessibility per CBC Figure 11B-6(b)
 - ☐ Illuminated where exit sign illumination required
 - ☐ Raised characters per item 37
 - ☐ Corresponding Braille per item 38

CBC 1007.9

35. Specify instructions displayed per item 28 adjacent to two-way communication system complying with the following for use under emergency conditions:
- ☐ Visual characters per item 36
 - ☐ Including directions to locate other accessible means of egress
 - ☐ Including directions for persons able to use exit stairway to do so as soon as possible, unless assisting others
 - ☐ Include information on planned availability of assistance in supervised operation of elevators and how to summon such assistance
 - ☐ Include directions for use of two-way communications system

CBC 1007.10 and 1007.11

SIGNAGE

36. Visual characters and symbols shall comply with the following:
- ☐ Characters, symbols, and background with non-glare finish
 - ☐ Colors of characters and symbols contrasting with background, either light on dark background or dark on light background
 - ☐ Character width-to-height ratio between 3:5 and 1:1 – measured by width of uppercase "O" and height of uppercase "I" – and stroke width-to-height ratio between 1:5 and 1:10 – measured by width and height of uppercase "I"
 - ☐ Characters sized according to following table with minimum height measured using an uppercase "X" and lowercase letters allowed:

VISUAL CHARACTER HEIGHT

HEIGHT TO FINISH FLOOR OR GROUND FROM BASELINE OF CHARACTER	HORIZONTAL VIEWING DISTANCE	MINIMUM CHARACTER HEIGHT
40 inches (1015 mm) to less than or equal to 70 inches (1780 mm)	Less than 72 inches (1830 mm)	$\frac{5}{8}$ inch (16 mm)
	72 inches (1830 mm) and greater	$\frac{5}{8}$ inch (16 mm), plus $\frac{1}{8}$ inch (3.2 mm) per foot (305 mm) of viewing distance above 72 inches (1830 mm)
Greater than 70 inches (1780 mm) to less than or equal to 120 inches (3050 mm)	Less than 180 inches (4570 mm)	2 inches (51 mm)
	180 inches (4570 mm) and greater	2 inches (51 mm), plus $\frac{1}{8}$ inch (3.2 mm) per foot (305 mm) of viewing distance above 180 inches (4570 mm)
Greater than 120 inches (3050 mm)	Less than 21 feet (6400 mm)	3 inches (75 mm)
	21 feet (6400 mm) and greater	3 inches (75 mm), plus $\frac{1}{8}$ inch (3.2 mm) per foot (305 mm) of viewing distance above 21 feet (6400 mm)

CBC 1117B.5.2, CBC 1117B.5.3 and CBC 1117B.5.4

37. Raised characters and symbols on elevator signage shall comply with the following:
- ☐ Characters minimum 5/8-inch and maximum 2-inches high
 - ☐ Characters raised minimum 1/32 inch
 - ☐ Characters sans serif and uppercase
 - ☐ Characters in horizontal format
 - ☐ Raised five-pointed star provided to left of floor-designation at exit discharge level, with outside diameter of star same height as raised characters

CBC 1117B.5.5

38. Braille on elevator signage shall comply with the following:
- ☐ Dots 1/10 inch on center in each cell
 - ☐ 2/10-inch spaces between cells, measured from second column of dots in first cell to first column of dots in second cell
 - ☐ Dots raised minimum 1/40 inch above background
 - ☐ Dots domed or rounded
 - ☐ Braille flush left or centered and placed minimum 3/8 inch and maximum 1/2 inch below raised characters or symbols
 - ☐ Braille in horizontal format
 - ☐ When raised characters are multilined text, all Braille placed together below all raised text lines

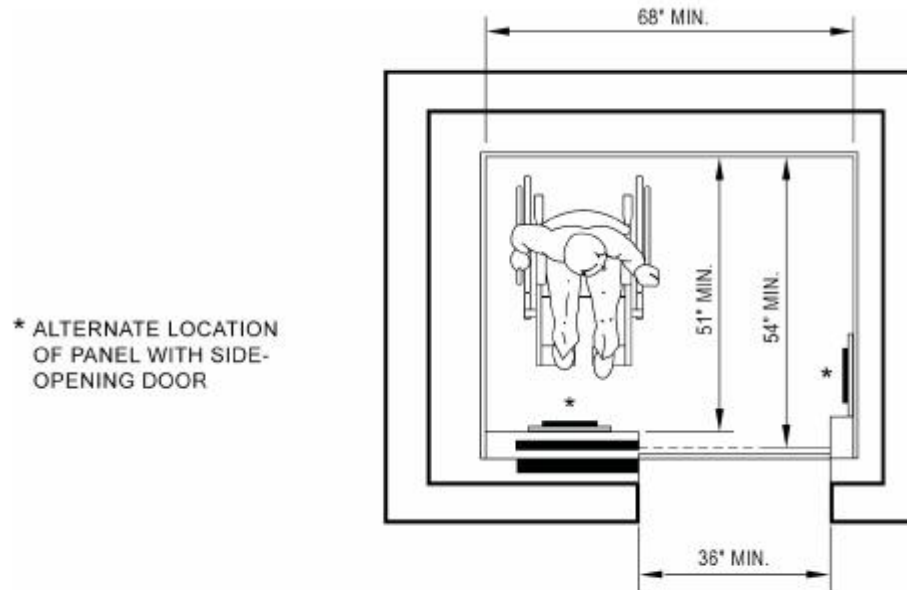
CBC 1117B.5.6

PLATFORM/WHEELCHAIR LIFTS

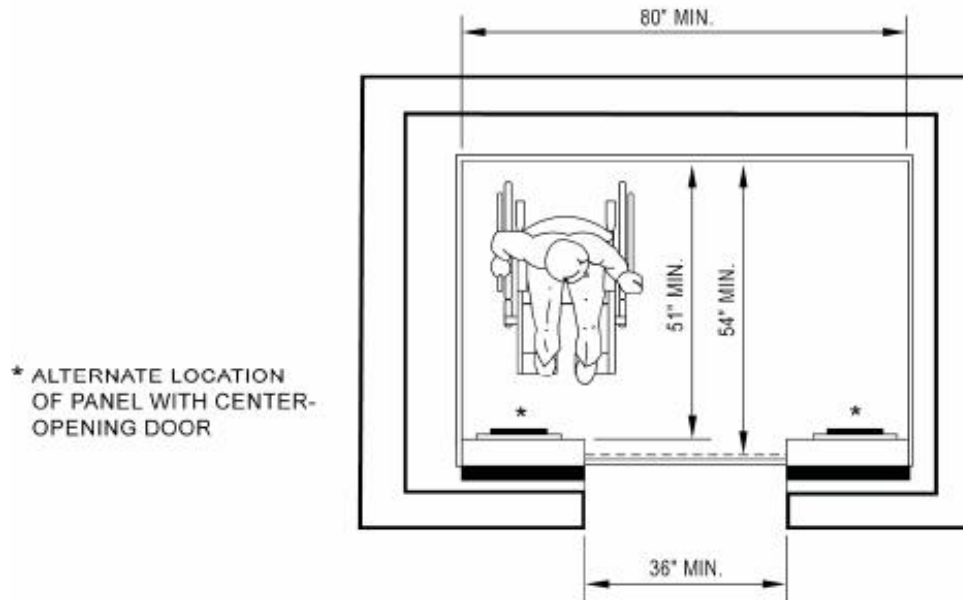
39. Platform/wheelchair lifts may be provided as part of an accessible means of egress only for the following:
- ☐ To access performing or speaking areas in assembly spaces
 - ☐ To comply with wheelchair viewing position line-of-sight and dispersion requirements of accessibility correction list 14B¹
 - ☐ To access incidental occupiable spaces and rooms not open to the general public and with occupant load no greater than five persons (e.g., equipment control rooms, projection booths)
 - ☐ To access areas where existing site or other constraints make use of a ramp or an elevator infeasible
- Exception:** Lifts installed in alterations or additions
- CBC 1116B.2
40. Platform/wheelchair lifts may be used as an accessible means of egress per item 39 only when complying with the following:
- ☐ Provided with standby power or self-rechargeable battery power adequate to operate all lift functions for minimum five upward and downward trips
 - ☐ Serving maximum four wheelchair viewing positions
 - ☐ Maximum 30-foot common path of egress travel – including vertical travel distance of lift – from wheelchair seating
- Exception:** Buildings with supervised automatic sprinklers
- CBC 1116B.2.5
41. Platform/wheelchair lifts may be provided between levels – in lieu of passenger elevators – when the travel distance between landings complies with the following:
- ☐ Maximum 5-feet vertical distance for unenclosed lifts
 - ☐ Maximum 12-feet vertical distance for enclosed lifts
 - ☐ Maximum 45-degree travel angle for incline lifts
- CBC 1116B.2.1 and ASME A18.1
42. If platform/wheelchair lift provided, it shall be designed and constructed to facilitate unassisted entry, operation, and exit from lift.
- CBC 1116B.2.2
43. Note on plans: "All platform/wheelchair lifts shall comply with ASME A18.1, *Safety Standard for Platform Lifts and Stairway Chair Lifts.*"
- CBC 1116B.2.1
44. Dimension minimum 60-inch-long by 60-inch-wide clear and level landings at all entry/exit doors to platform/wheelchair lifts.
- Exception:** Alternative dimensions acceptable if person using 30-inch by 48-inch wheelchair can enter and operate lift safely
- CBC 1116B.2.3
45. Specify and dimension platform/wheelchair lift doors or gates complying with the following:
- ☐ End doors minimum 32-inch clear width
 - ☐ Side doors minimum 42-inch clear width
 - ☐ Power-operated
- Exception:** Platform/wheelchair lift doors or gates on opposite sides may be manually operated
- ☐ Remain open for minimum 20 seconds
- CBC 1116B.2.6
46. Provide signage complying with the following at each platform/wheelchair lift:
- ☐ Located on platform and at each landing
 - ☐ Reading: "No Freight"
 - ☐ Letters minimum 5/8-inch high and complying with item 36
 - ☐ Including International Symbol of Accessibility
- CBC 1116B.2.7



**CBC FIGURE 11B-6(b) – INTERNATIONAL SYMBOL OF ACCESSIBILITY
(WHITE FIGURE ON BLUE BACKGROUND EQUAL TO
COLOR NO. 15090 IN FEDERAL STANDARD 595B)**



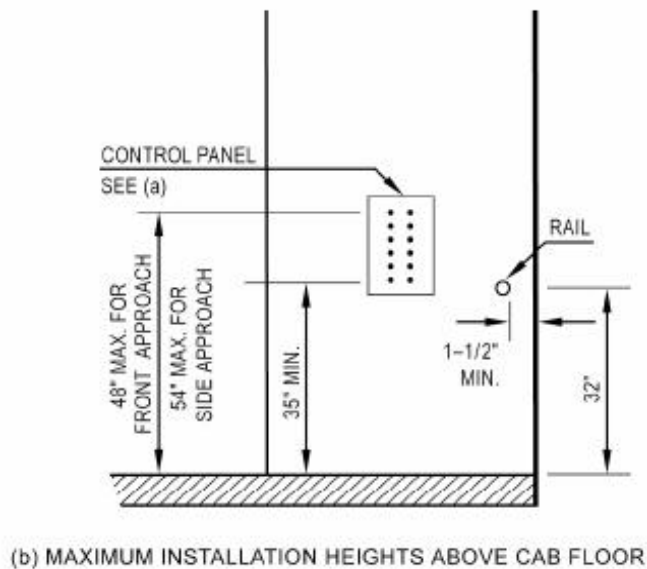
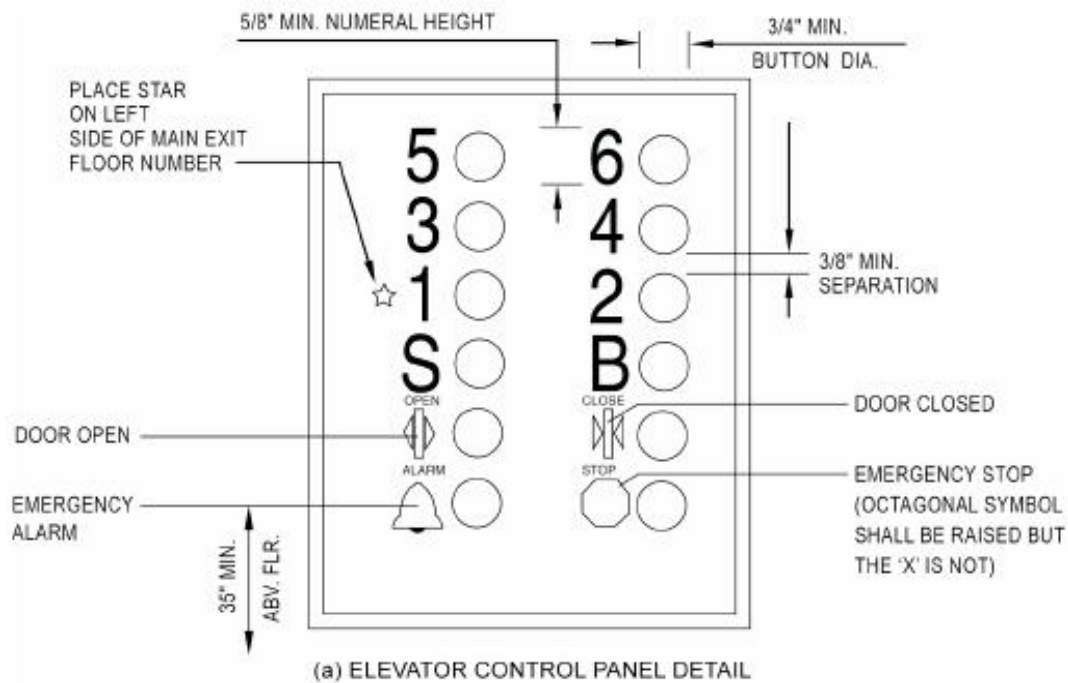
(a) SIDE OPENING DOOR



(b) CENTER OPENING DOOR

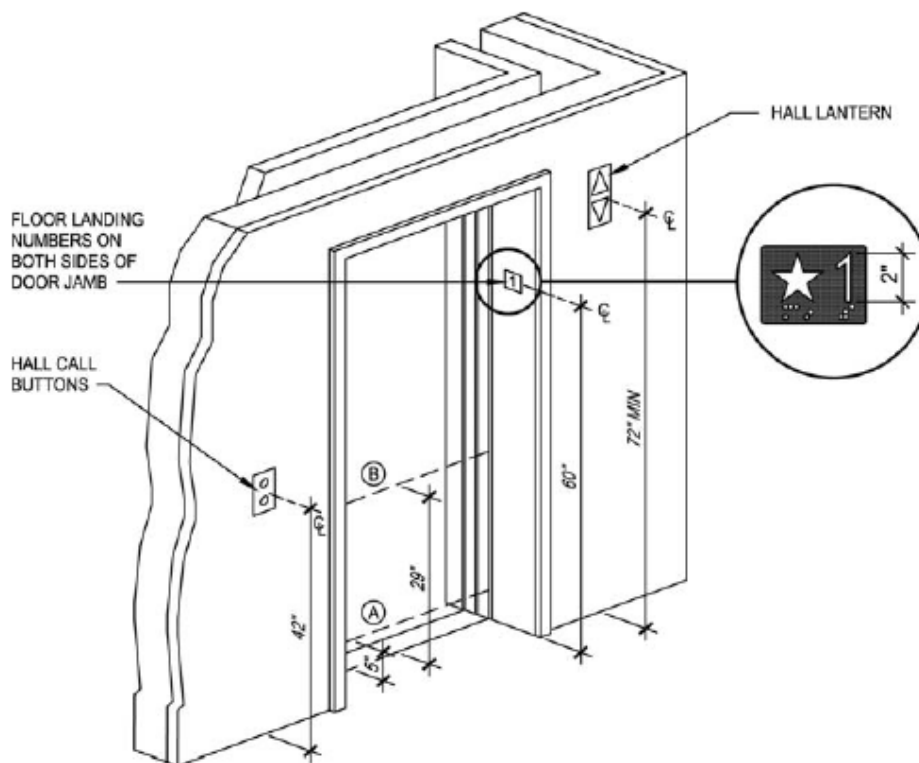
CBC FIGURE 11B-40A – ELEVATOR CAR DIMENSIONS

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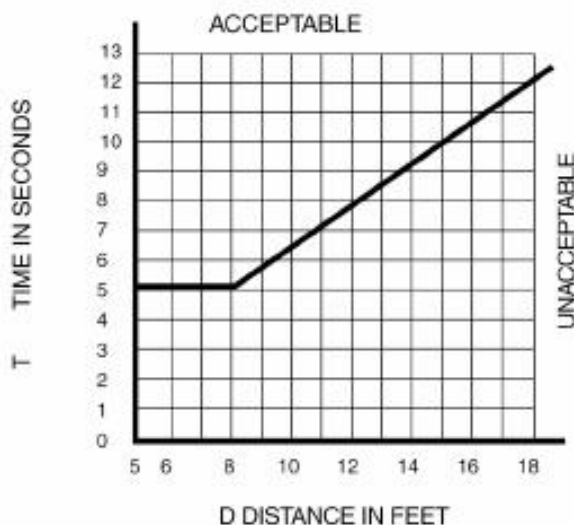
CBC FIGURE 11B-40B – ELEVATOR CONTROL PANEL

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NOTE:
THE AUTOMATIC DOOR REOPENING DEVICE IS ACTIVATED IF AN OBJECT PASSES THROUGH EITHER LINE A OR LINE B. LINE A AND LINE B REPRESENT THE VERTICAL LOCATION OF THE DOOR REOPENING DEVICE NOT REQUIRING CONTACT.

CBC FIGURE 11B-40C – HOISTWAY AND ELEVATOR ENTRANCES



CBC FIGURE 11B-40D – GRAPH OF ELEVATOR DOOR TIMING EQUATION

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